

## **Appendix A. List of Acronyms**

**A.1 List of Acronyms**

$\sigma_g$	geometric standard deviation
AAQS	Ambient Air Quality Standards
ACGIH	American Conference of Governmental Industrial Hygienists
ADI	acceptable daily intake
AEGL	Acute Emergency Guidance Level
AEL	adverse effect level
AHH	aryl hydrocarbon hydroxylase
AICE	American Institute of Chemical Engineers
AIHA	American Industrial Hygiene Association
ALL	acute lymphoblastic leukemia
ARB	Air Resources Board
ATS	American Thoracic Society
AUC	area under the (blood or tissue concentration x time) curve
$AV_A$	alveolar ventilation (animal)
$AV_H$	alveolar ventilation (human)
BMC	benchmark concentration
$BMCL_{05}$	lower 95% confidence interval of the benchmark concentration
BMD	benchmark dose
BW	body weight
$C \times T$	concentration multiplied by time
$C_A$	applied concentration in an animal experiment.
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CalOSHA	California Occupational Safety and Health Administration
CAPCOA	California Air Pollution Control Officer's Association
$C_{AVG}$	average concentration
CFT	computational fluid dynamics
CIIT	Chemical Industry Institute of Toxicology
$C_{maxs}$	peak concentrations
$C_{OBS}$	observed concentration
$Cr^{VI}$	hexavalent chromium
CYP	cytochrome P450
DAF	dosimetric adjustment factor
DCM	dichloromethane
DES	diethylstilbestrol

D <sub>H-d</sub>	dose of compound or active metabolite at site of action in default human
D <sub>L</sub>	diffusing capacity
DOD	Department of Defense
DPR	Department of Pesticide Regulation (State of California, CalEPA)
DPX	DNA-protein cross-links
EC <sub>05</sub>	5% effective concentration (expected to produce a 5% toxic response rate)
EEGL	Emergency Exposure Guidance Level
ERPG	Emergency Response Planning Guidelines
ET	extrathoracic
ETS	environmental tobacco smoke
FAS	Fetal Alcohol Syndrome
FDA	Food and Drug Administration
FEL	frank effect level
FEV <sub>1</sub>	forced expiratory volume in one second
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
FQPA	Federal Food Quality Protection Act
FVC	forced vital capacity
GFR	glomerular filtration rate
GLC	ground level concentration
GLPs	Good Laboratory Practices
GSH	glutathione
GSTs	Glutathione sulfotransferases
H&SC	Health & Safety Code
HARP	Air Resources Board's Hot Spots Analysis and Reporting Program
HEC	Human Equivalent Concentration
Hg	mercury
HI	hazard index
IARC	International Agency for Research on Cancer
IBT	Industrial Bio-Test Laboratories Inc.
ICRP	International Commission on Radiological Protection
IRDC	International Research and Development Corporation
LCL	lower confidence limit
LD <sub>50</sub>	lethal dose to 50% of test animals in a given experiment
LOAEL	lowest-observed-adverse-effect-level
LOEL	lowest-observed-effect-level
MLE	maximum likelihood estimate
MMAD	mean mass aerodynamic diameter
MPPD	multiple path particle deposition model

MV	minute volume
NAC	National Advisory Committee
NAS	National Academy of Sciences
NATICH	National Air Toxics Information Clearinghouse
NIOSH	National Institute for Occupational Safety and Health
NOAEL	no-observed-adverse-effect-level
NOEL	no observed effect level
NRC	National Research Council
NTP	National Toxicology Program
OEHHA	Office of Environmental Health Hazard Assessment
OP	organophosphate
OR	odds ratio
PAH	polycyclic aromatic hydrocarbon
Pb	lead
PBPK	physiologically based pharmacokinetic modeling
PCE	perchloroethylene
PEL	Permissible Exposure Limits
PK UF	pharmacokinetic uncertainty factors
PU	pulmonary region
RD50	respiratory dose 50 (dose of gas causing 50% decrease in respiration rate)
RDDR <sub>s</sub>	regional deposited dose ratios
REL	Reference Exposure Level
RfC	Reference Concentration
RfD	Reference Dose
RFLP	restriction fragment length polymorphism
RGDR	regional gas dose ratio
RIVM	The Netherlands National Institute for Public Health and the Environment
RR	relative risk
RSA <sub>A</sub>	regional surface area (animal)
RSA <sub>H</sub>	regional surface area (human)
RT	respiratory tracts
SA	surface area
SB	Senate Bill
SG <sub>aw</sub>	specific airway conductance
SMR	standardized mortality ratios
SPEGL	Short-term Public Emergency Guidance Level
SR <sub>AW</sub>	specific airway resistance
SRP	Scientific Review Panel

STEL	Short-term Exposure Limit
TACs	Toxic Air Contaminants
TB	tracheobronchial region
TCA	trichloroacetic acid
TCE	trichloroethylene
TD	toxicodynamic
TK	toxicokinetic
TLV-TWA	Threshold Limit Value-Time Weighted Average
TSDs	Technical Support Documents
UCL	upper confidence limit
UF <sub>A</sub>	interspecies uncertainty factor
UF <sub>A-d</sub>	interspecies uncertainty factor toxicodynamic component
UF <sub>A-k</sub>	interspecies uncertainty factor toxicokinetic component
UF <sub>D</sub>	database deficiency uncertainty factor
UF <sub>H</sub>	intraspecies uncertainty factor
UF <sub>H-d</sub>	intraspecies uncertainty factor toxicodynamic component
UF <sub>H-k</sub>	intraspecies uncertainty factor toxicokinetic component
UF <sub>L</sub>	LOAEL uncertainty factor
UF <sub>S</sub>	subchronic uncertainty factor
UFs	uncertainty factors
U.S. DHHS	United States Department of Health and Human Services
U.S. EPA	United States Environmental Protection Agency
Val	valine
Vd	volume of distribution
VOCs	volatile organic compounds
WHO	World Health Organization
$\chi^2$	chi-squared